



**Mining
Form
MR-400**

**S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
BUREAU OF LAND AND WASTE MANAGEMENT
DIVISION OF MINING AND SOLID WASTE PERMITTING
2600 Bull Street, Columbia, SC 29201
Telephone Number: (803) 896-4261 Fax Number: (803) 896-4001**

**APPLICATION FOR A MINE OPERATING PERMIT
DHEC FORM MR-400 DATE VERSION ADOPTED 7/1/94**

**1-001915
F# 11114**

"The South Carolina Mining Act," Sections 48-20-10 through 48-20-310, Code of Laws of South Carolina, 1976, as amended provides in part: "No operator may engage in mining without having first obtained from the Department an operating permit which covers the affected land and which has not been terminated, been revoked, suspended for the period in question, or otherwise become invalidated." (Section 48-20-60)

I. APPLICANT INFORMATION

RECEIVED

1. Name of Company: Sloan Construction Company, Inc.

Check form of business entity: ☒ Corporation

☐ Partnership

☐ Limited Partnership

☐ Sole Proprietorship

**SEP 29 2009
DIVISION OF MINING &
SOLID WASTE MANAGEMENT
BL&WM**

2. Name of Proposed Mine: Blacksburg Quarry County: Cherokee

3. Home Office Address: 250 Plemmons Road (864) 416-0200
(Street and P.O. Box) (Telephone No.)

Duncan SC 29334-0000 864-416-0201
(City) (State) (Zip Code) (Fax No.)

4. Local Office Address: to come

to come SC
(City) (State) (Zip Code) (Fax No.)

5. Designate to which office Official Mail is to be sent (check one):

☒ Home Office

☐ Local Office

6. Name of company personnel and their title to be the contact for official business and correspondence: _____

Jesse Rickmon, Mining Engineer

7. Location of Mine: Interstate 85

Blacksburg

(State or County Hwy No.)

(Nearest Town or City)

8. Locate accurately on a county map, USGS 7.5' Topographic Map, or draw a detailed map to scale of: (1) how to get to your local office and (2) how to get to the mine (attach to this application). ATTACHMENT A

9. If land is leased, complete the following: _____

A. Name of landowner: DEM Development, LLC

Landowner's Address: 105 Ridge Road, PO Box 1060

Tryon

NC 28782-0000
(State) (Zip Code)

(City) (Telephone Number)

B. Date lease became effective: UPON RECEIPT OF MINE OPERATING PERMIT

Date of lease termination: 25 YEARS HENCE, 10 YEAR RENEWAL, 10 YEAR RENEWAL, 1 YEAR RENEWALS ONGOING

Name of lessee: Sloan Construction Company, Inc.

II. GENERAL CHARACTERISTICS OF MINE:

1. Material(s) to be mined: Granite gneiss

2. Mining Method:

A. List equipment to be used for mining and provide a brief description as to how the mine will be operated.

Overburden removal will be handled utilizing loader & haul trucks. Overburden will be deposited in a strategically located blind berm to obscure visibility to the surrounding public. Remaining overburden will be stored in designated areas within the permitted boundary. Mining will begin with drilling & blasting. A down-hole rig will drill boreholes & blasting will be contracted out.
(continued below on B.)

B. Will there be a process plant located at the mine site within the boundary of the permitted area?

☒ Yes ☐ No If no, please provide a brief description of the plant equipment and function of the plant.

Ore will be trammed by loader to feed an in-pit primary crusher. Material will be conveyed out of the pit & processed by a tertiary crushing plant located w/in the permit boundary. Processed aggregate material will be stockpiled around the tertiary crushing plant & handled by loader into over the road trucks.

3. Do you anticipate blasting as part of the mining operation? ☒ Yes ☐ No If yes, provide the distance to the nearest inhabited structure not owned or leased by the applicant. Also, provide as an attachment to this application the names and addresses of all the owners of all structures within one-half mile from the nearest point of blasting during the life of the proposed mine. How will flyrock be prevented from being projected from the permitted area?

Fly-rock will be prevented by conducting proper pre-blast surveys to determine adequate burden and spacing and utilizing accurate drill logs created during drilling of faces. Drill logs will allow for proper calculations of stemming and locations of anomalies within the rock. Logs will be conveyed to the blaster in charge as part of the pre-blast survey. Blast mats will be used where applicable.

STRUCTURE OWNERS - ATTACHMENT B

4. Has this site been mined in the past? If so, please indicate the present condition of the land.

No.

5. What is the expected maximum depth of this mine? Provide any additional information about the final depth of the mine that would be useful to the Department. (Example: Final depth of pit will be level to adjacent road, elevation above Mean Sea Level (MSL)).

Current plans of excavation indicate a final pit depth of 350' below railroad located on the western property boundary. This will put the final floor elevation at 250' above MSL.

III. DETERMINATION OF PERMITTED ACREAGE, AFFECTED ACREAGE AND RECLAMATION BOND

1. Total acres for which permit is being requested:

_____ Permitted acres owned by the operator

314 Permitted acres leased by the operator

Note: Permitted acreage should include the following: 1) acres of land to be affected (excavation, processing plant, stockpiles, etc.); 2) future area(s) to be mined and 3) land to be used for buffer zones around the affected land. The permitted area should be the property described in the LAND ENTRY AGREEMENT(S) (FORMS MR-600 OR MR-700).

2. Total affected acreage:

Acres

A) Area used for sediment control ponds 2

B) Area used for stockpiles of unprocessed minerals 0

C) Area used for spoil (overburden) banks, topsoil and disposal refuse (exclusive of tailings impoundments) 38

D) Areas used for on-site processing facilities and stockpiles of processed minerals 57

E) Areas used for tailings pond (waste material from mineral processing) 1

F) Area for access or haul roads 5

G) Area for excavation during the period of this permit

OR

If mining and reclamation are to be done in segments, state the size of each segment (acres) 10. Multiply the size of the segments by 3 and enter the resulting number. ----->

30

H) TOTAL OF 2A THROUGH 2G 133

3. Check acreage to be bonded: total affected acreage calculated from Section 2.

☐ 0.00 - 9.99 acres (bond amount - \$10,000)

☐ 10.00 - 14.99 acres (bond amount - \$15,000)

☐ 15.00 - 24.99 acres (bond amount - \$25,000)

☒ 25.00 + acres (bond amount - \$25,000 or greater)

Applicant may submit a reclamation cost estimate for mines that will affect greater than 25 acres. Estimate should be based upon requirements in Regulation 89-200 B. ATTACHMENT C.

4. Will this operation be covered by a blanket bond? ☐ Yes ☒ No If yes, please list your company's other permitted mining operations in South Carolina giving mine names, permit numbers and state the present reclamation bond amount on file with this Department.

5. Number of years for which this permit is requested. The requested number of years the permit is requested should coincide with the Schedule of Reclamation as proposed by the applicant in the RECLAMATION PLAN, (Form MR-500). 50 years

IV. PROTECTION OF NATURAL RESOURCES

1. Will there be a waste water treatment system at your mine site? ☐ Yes ☒ No
2. Will there be a point source discharge from your plant or mine requiring an NPDES Permit? ☒ Yes ☐ No
If yes, provide information as to how stormwater and groundwater will be managed?
See attached.
3. Will there be air contaminant emissions from your plant or mine requiring an Air Quality Permit? ☒ Yes ☐ No
4. Do you anticipate pumping of groundwater? ☒ Yes ☐ No If yes, describe.
See attached.
5. Will jurisdictional wetlands be affected, filled or altered in any fashion that will require a Section 404 Dredge and Fill Permit? ☐ Yes ☒ No
6. Are there any known cultural or historic sites located within the proposed area to be permitted? ☐ Yes ☒ No
PRELIMINARY SITE INVESTIGATION INDICATES NO KNOWN CULTURAL OR HISTORIC SITES IN AREA
7. Will any part of the permitted area be used as a solid waste describe how waste, trash, scrap metal material, garbage will be handled. ☐ Yes ☒ No
See attached.

*NOTE: For questions 1-7 that need additional space for explanations, please provide additional information on an attached sheet to this application.

8. Describe the wildlife or freshwater, estuarine or marine fisheries in the area of the mining operation. Also provide information about any ponds and/or streams that may be located in the proposed permitted area.

There are no known wildwife or freshwater fisheries in the area of the mining operation. There is located on the property, one pond, approx. 1/3 acre in size. There is also a stream of approx. 6" width traveling southwest across the southern section of the permitted property.

9. State the land cover and land uses on the permitted land area and contiguous tracts of land to the permitted land area.

The current land cover of the permitted area is timberland and has been utilized for timbering. Surrounding tracts are classified as agricultural and residential.

10. Describe measures to be taken to insure against (1) substantial deposits of sediment in neighboring streams, rivers lakes or ponds; (2) landslides; (3) acid water formation and discharge. Attach any supporting documents (engineering designs, calculations, sediment & erosion control plan, setbacks, geotechnical information, acid prediction test etc.) to this application.

All disturbed areas and slopes will be inset a minimum of 25 feet from all permitted boundaries. All slopes will be walked in with track equipment to no less than 3H: 1V slope and seeded for stabilizing. Silt fence will be used to prevent sedimentation during re-vegetation. All areas of shallow standing water will be corrected in a manner as to prevent collection and allow for runoff to move towards designed settling basins.

V. SAFETY

1. Describe methods to be used during the time the mine operating permit is active to prevent physical hazards to persons and to any neighboring dwelling, house, school, church, hospital, commercial or industrial building or public road. If applicable, provide the zoning designation for the property to be permitted.

All applicable state & federal safety & health regulations will be adhered to for the life of the mine. The permitted property will be delineated by fence except along the RR on the SW side of the property. All activity will be inset 25' from this boundary. Quarry benches will be terraced to stop falling material. Pit edge will be sloped 3H:1V to a min 10' shelf at the crest. Hard hats will be worn by personnel at all times. (continued below on 2.)

2. Describe methods to be used to prevent an adverse effect on the purposes of a publicly-owned park, publicly-owned forest, or publicly-owned recreation area. If any of these facilities are within one (1) mile of the proposed affected property, please locate on mine location map and the submitted U.S.G.S topographic map for this application.

Road dust will be controlled by water truck & plant & operating dust will be controlled by a wet suppression system. Flooding will be controlled by pumps. All blasting is subject to federal noise & vibration limits. No zoning designations in Cherokee County.

3. Describe measures to be taken for screening the operation from view from public highways, public parks or residential areas.

Blind berms will be designed and constructed utilizing removed overburden to screen the North, Northeast, East and Southern boundaries of the permitted property. In areas where additional screening is required, evergreen trees will be planted along the crest of the berms to impede visibility.

VI. MINE MAP

1. Provide the U.S.G.S. topographic map(s) that contains the proposed mine site. The proposed permitted area should be outlined on this submitted topographic map.
2. Attach two (2) copies of a map of the site (referred to as the MINE MAP) that shows the following: ATTACHMENT F.
 - A. Outline of the area to be affected by mining during the number of years for which the permit is requested. See Section III, Question 1 on page 3 of this application form.
 - B. Outline of the permitted area that shows the buffers zones, future mine areas and areas to be affected by mining.
 - C. Outline of the planned pits or excavations for which your company has detailed plans. If your company has reason to believe that additional land may be mined in the future within the permitted area but is not feasible to show as planned excavations; indicate these areas as FUTURE RESERVES on this site map.
 - D. Outline of areas for the storage of naturally occurring soil that will be suitable for the establishment of vegetation in final reclamation.
 - E. Outline of planned areas for disposal of refuse, exclusive of tailings ponds.
 - F. Outline of planned spoil, overburden or other similar waste material disposal areas.
 - G. Locations of planned access and haul roads on the area to be affected.

H. Outline of planned tailings ponds.

I. Locations of sediment control pond(s) and other sediment control structures within the affected area. Outline of areas on which temporary or permanent vegetation will be established to control erosion during the mine operation.

J. Location and name (if appropriate) of streams, lakes, wetlands and existing drainage ditches within the area to be permitted. Use arrows to indicate direction of water flow in such streams and drainage ditches.

K. Boundary for the 100 year floodplain, where appropriate.

L. Outline of areas for stockpiles of unprocessed minerals.

M. Outline of area of previously mined land that will not be affected.

N. Outline of the area to be occupied by processing facilities including stockpiles of processed minerals if such facilities are to be an integral on-site part of the mining operation.

O. Show location of the two permanent survey control points.

P. A legend showing the name of applicant, name of the proposed mine, north arrow, county, scale, date of preparation and name and title of person who prepared the site map.

THE REQUIRED SITE MAP SHALL HAVE A NEAT, LEGIBLE APPEARANCE AND BE OF SUFFICIENT SCALE TO CLEARLY SHOW THE REQUIRED INFORMATION LISTED ABOVE. THE BASE FOR THE MAP SHALL BE EITHER A SPECIALLY PREPARED LINE DRAWING, AERIAL PHOTOGRAPH, ENLARGED USGS TOPOGRAPHIC MAP OR A RECENTLY PREPARED PLAT.

3. Provide the most recent county tax map that shows all contiguous land owners of the permitted mine site. Provide name and addresses of all land owners contiguous to the proposed permitted mine site.

4. Provide letter from an attorney attesting to (1) the ownership of the property, (2) ownership of the mineral rights and (3) that the applicant has the legal right to mine the proposed mineral resource on the property as described in this application.

We hereby certify that all information and details contained hereinabove, within any supporting documents and on the map are true and correct to the best of our knowledge. We fully understand that any willful misrepresentation of facts will be cause for permit revocation.

The applicant acknowledges that Section 48-20-130, Code of Laws of South Carolina, provides in part:

"Upon receipt of the operator's annual report or report of completion of reclamation and at any other reasonable time the department may elect, the department shall inspect the permit area to determine if the operator has complied with the reclamation plan, the requirements of this chapter, regulations promulgated by its authority, and the terms and conditions of this permit. Accredited representatives of the department at all reasonable times may enter upon the land subject to the certificate of exploration or operating permit for the purpose of making the inspection."



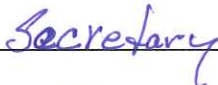
Signature of Applicant/Operator or his Authorized Representative

A. Scott Fant, Secretary

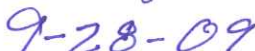
Printed Name of Applicant/Operator or his Authorized Representative



Title



Date



Department Use Only

Application No.: _____ Date Application Approved: _____ Date Bond Rec'd: _____

Bond Amount: _____ Blanket or Single Bond Permit Issuance Date: _____

ACTION TAKEN ON THIS APPLICATION

_____ Approved _____ Denied _____ Approve with additional Terms and Conditions

By: _____
DIVISION DIRECTOR

Date: _____